

1643

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/501,171A DATE: 06/06/2000
 TIME: 15:18:37

Input Set : A:\Seqlist.txt
 Output Set: N:\CRF3\06062000\I501171A.raw

**Does Not Comply
 Corrected Diskette Needed**

4 <110> APPLICANT: St. George-Hyslop, Peter H.
 5 Fraser, Paul E.
 7 <120> TITLE OF INVENTION: Proteins Related to Neuronal
 8 Regeneration and Uses Thereof
 10 <130> FILE REFERENCE: 1034/1F811
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/501,171A
 C--> 12 <141> CURRENT FILING DATE: 2000-02-09
 12 <160> NUMBER OF SEQ ID NOS: 6
 14 <170> SOFTWARE: FastSEQ for Windows Version 3.0

ERRORED SEQUENCES

233 <210> SEQ ID NO: 4
 234 <211> LENGTH: 1225
 235 <212> TYPE: PRT
 236 <213> ORGANISM: human
 238 <400> SEQUENCE: 4
 239 Met Phe Ala Arg Lys Pro Pro Gly Ala Ala Pro Leu Gly Ala Met Pro
 240 1 5 10 15
 241 Val Pro Asp Gln Pro Ser Ser Ala Ser Glu Lys Thr Ser Ser Leu Ser
 242 20 25 30
 243 Pro Gly Leu Asn Thr Ser Asn Gly Asp Gly Ser Glu Thr Glu Thr Thr
 244 35 40 45
 245 Ser Ala Ile Leu Ala Ser Val Lys Glu Gln Glu Leu Gln Phe Glu Arg
 246 50 55 60
 247 Leu Thr Arg Glu Leu Glu Ala Glu Arg Gln Ile Val Ala Ser Gln Leu
 248 65 70 75 80
 249 Glu Arg Cys Lys Leu Gly Ser Glu Thr Gly Ser Met Ser Ser Met Ser
 250 85 90 95
 251 Ser Ala Glu Glu Gln Phe Gln Trp Gln Ser Gln Asp Gly Gln Lys Asp
 252 100 105 110
 253 Ile Glu Asp Glu Leu Thr Thr Gly Leu Glu Leu Val Asp Ser Cys Ile
 254 115 120 125
 255 Arg Ser Leu Gln Glu Ser Gly Ile Leu Asp Pro Gln Asp Tyr Ser Thr
 256 130 135 140
 257 Gly Glu Arg Pro Ser Leu Leu Ser Gln Ser Ala Leu Gln Leu Asn Ser
 258 145 150 155 160
 259 Lys Pro Glu Gly Ser Phe Gln Tyr Pro Ala Ser Tyr His Ser Asn Gln
 260 165 170 175
 261 Thr Leu Ala Leu Gly Glu Thr Thr Pro Ser Gln Leu Pro Ala Arg Gly
 262 180 185 190
 263 Thr Gln Ala Arg Ala Thr Gly Gln Ser Phe Ser Gln Gly Thr Thr Ser
 264 195 200 205
 265 Arg Ala Gly His Leu Ala Gly Pro Glu Pro Ala Pro Pro Pro Pro Pro
 266 210 215 220
 267 Pro Pro Arg Glu Pro Phe Ala Pro Ser Leu Gly Ser Ala Phe His Leu

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```

268 225          230          235          240
269 Pro Asp Ala Pro Pro Ala Ala Ala Ala Ala Leu Tyr Tyr Ser Ser
270          245          250          255
271 Ser Thr Leu Pro Ala Pro Pro Arg Gly Gly Ser Pro Leu Ala Ala Pro
272          260          265          270
273 Gln Gly Gly Ser Pro Thr Lys Leu Gln Arg Gly Gly Ser Ala Pro Glu
274          275          280          285
275 Gly Ala Thr Tyr Ala Ala Pro Arg Gly Ser Ser Pro Lys Gln Ser Pro
276          290          295          300
277 Ser Arg Leu Ala Lys Ser Tyr Ser Thr Ser Ser Pro Ile Asn Ile Val
278          305          310          315          320
279 Val Ser Ser Ala Gly Leu Ser Pro Ile Arg Val Thr Ser Pro Pro Thr
280          325          330          335
281 Val Gln Ser Thr Ile Ser Ser Ser Pro Ile His Gln Leu Ser Ser Thr
282          340          345          350
283 Ile Gly Thr Tyr Ala Thr Leu Ser Pro Thr Lys Arg Leu Val His Ala
284          355          360          365
285 Ser Glu Gln Tyr Ser Lys His Ser Gln Glu Leu Tyr Ala Thr Ala Thr
286          370          375          380
287 Leu Gln Arg Pro Gly Ser Leu Ala Ala Gly Ser Arg Ala Ser Tyr Ser
288          385          390          395          400
289 Ser Gln His Gly His Leu Gly Pro Glu Leu Arg Ala Leu Gln Ser Pro
290          405          410          415
291 Glu His His Ile Asp Pro Ile Tyr Glu Asp Arg Val Tyr Gln Lys Pro
292          420          425          430
293 Pro Met Arg Ser Leu Ser Gln Ser Gln Gly Asp Pro Leu Pro Pro Ala
294          435          440          445
295 His Thr Gly Thr Tyr Arg Thr Ser Thr Ala Pro Ser Ser Pro Gly Val
296          450          455          460
297 Asp Ser Val Pro Leu Gln Arg Thr Gly Ser Gln His Gly Pro Gln Asn
298          465          470          475          480
299 Ala Ala Ala Ala Thr Phe Gln Arg Ala Ser Tyr Ala Ala Gly Pro Ala
300          485          490          495
301 Ser Asn Tyr Ala Asp Pro Tyr Arg Gln Leu Gln Tyr Cys Pro Ser Val
302          500          505          510
303 Glu Ser Pro Tyr Ser Lys Ser Gly Pro Ala Leu Pro Pro Glu Gly Thr
304          515          520          525
305 Leu Ala Arg Ser Pro Ser Ile Asp Ser Ile Gln Lys Asp Pro Arg Glu
306          530          535          540
307 Phe Gly Trp Arg Asp Pro Glu Leu Pro Glu Val Ile Gln Met Leu Gln
308          545          550          555          560
309 His Gln Phe Pro Ser Val Gln Ser Asn Ala Ala Tyr Leu Gln His
310          565          570          575
311 Leu Cys Phe Gly Asp Asn Lys Ile Lys Ala Glu Ile Arg Arg Gln Gly
312          580          585          590
313 Gly Ile Gln Leu Leu Val Asp Leu Leu Asp His Arg Met Thr Glu Val
314          595          600          605
315 His Arg Ser Ala Cys Gly Ala Leu Arg Asn Leu Val Tyr Gly Lys Ala
316          610          615          620

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```

317 Asn Asp Asp Asn Lys Ile Ala Leu Lys Asn Cys Gly Gly Ile Pro Ala
318 625 630 635 640
319 Leu Val Arg Leu Leu Arg Lys Thr Thr Asp Leu Glu Ile Arg Glu Leu
320 645 650 655
321 Val Thr Gly Val Leu Trp Asn Leu Ser Ser Cys Asp Ala Leu Lys Met
322 660 665 670
323 Pro Ile Ile Gln Asp Ala Leu Ala Val Leu Thr Asn Ala Val Ile Ile
324 675 680 685
325 Pro His Ser Gly Trp Glu Asn Ser Pro Leu Gln Asp Arg Lys Ile
326 690 695 700
327 Gln Leu His Ser Ser Gln Val Leu Arg Asn Ala Thr Gly Cys Leu Arg
328 705 710 715 720
329 Asn Val Ser Ser Ala Gly Glu Glu Ala Arg Arg Arg Met Arg Glu Cys
330 725 730 735
331 Asp Gly Leu Thr Asp Ala Leu Leu Tyr Val Ile Gln Ser Ala Leu Gly
332 740 745 750
333 Ser Ser Glu Ile Asp Ser Lys Thr Val Glu Asn Cys Val Cys Ile Leu
334 755 760 765
335 Arg Asn Leu Ser Tyr Arg Leu Ala Ala Glu Thr Ser Gln Gly Gln His
336 770 775 780
337 Met Gly Thr Asp Glu Leu Asp Gly Leu Leu Cys Gly Glu Ala Asn Gly
338 785 790 795 800
339 Lys Asp Ala Glu Ser Ser Gly Cys Trp Gly Lys Lys Lys Lys Lys
340 805 810 815
341 Lys Ser Gln Asp Gln Trp Asp Gly Val Gly Pro Leu Pro Asp Cys Ala
342 820 825 830
343 Glu Pro Pro Lys Gly Ile Gln Met Leu Trp His Pro Ser Ile Val Lys
344 835 840 845
345 Pro Tyr Leu Thr Leu Leu Ser Glu Cys Ser Asn Pro Asp Thr Leu Glu
346 850 855 860
347 Gly Ala Ala Gly Ala Leu Gln Asn Leu Ala Ala Gly Ser Trp Lys Trp
348 865 870 875 880
349 Ser Val Tyr Ile Arg Ala Ala Val Arg Lys Glu Lys Gly Leu Pro Ile
350 885 890 895
351 Leu Val Glu Leu Leu Arg Ile Asp Asn Asp Arg Val Val Cys Ala Val
352 900 905 910
353 Ala Thr Ala Leu Arg Asn Met Ala Leu Asp Val Arg Asn Lys Glu Leu
354 915 920 925
355 Ile Gly Lys Tyr Ala Met Arg Asp Leu Val His Arg Leu Pro Gly Gly
356 930 935 940
357 Asn Asn Ser Asn Asn Thr Ala Ser Lys Ala Met Ser Asp Asp Thr Val
358 945 950 955 960
359 Thr Ala Val Cys Cys Thr Leu His Glu Val Ile Thr Lys Asn Met Glu
360 965 970 975
361 Asn Ala Lys Ala Leu Arg Asp Ala Gly Gly Ile Glu Lys Leu Val Gly
362 980 985 990
363 Ile Ser Lys Ser Lys Gly Asp Lys His Ser Pro Lys Val Val Lys Ala
364 995 1000 1005
365 Ala Ser Gln Val Leu Asn Ser Met Trp Gln Tyr Arg Asp Leu Arg Ser

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```

366      1010      1015      1020
367 Leu Tyr Lys Lys Asp Gly Trp Ser Gln Tyr His Phe Val Ala Ser Ser
E--> 368 1025      1030      1035      104
369 Ser Thr Ile Glu Arg Asp Arg Gln Arg Pro Tyr Ser Ser Ser Arg Thr
370      1045      1050      1055
371 Pro Ser Ile Ser Pro Val Arg Val Ser Pro Asn Asn Arg Ser Ala Ser
372      1060      1065      1070
373 Ala Pro Ala Ser Pro Arg Glu Met Ile Ser Leu Lys Glu Arg Lys Thr
374      1075      1080      1085
375 Asp Tyr Glu Cys Thr Gly Ser Asn Ala Thr Tyr His Gly Ala Lys Gly
376      1090      1095      1100
377 Glu His Thr Ser Arg Lys Asp Ala Met Thr Ala Gln Asn Thr Gly Ile
E--> 378 1105      1110      1115      112
379 Ser Thr Leu Tyr Arg Asn Ser Tyr Gly Ala Pro Ala Glu Asp Ile Lys
380      1125      1130      1135
381 His Asn Gln Val Ser Ala Gln Pro Val Pro Gln Glu Pro Ser Arg Lys
382      1140      1145      1150
383 Asp Tyr Glu Thr Tyr Gln Pro Phe Gln Asn Ser Thr Arg Asn Tyr Asp
384      1155      1160      1165
385 Glu Ser Phe Phe Glu Asp Gln Val His His Arg Pro Pro Ala Ser Glu
386      1170      1175      1180
387 Tyr Thr Met His Leu Gly Leu Lys Ser Thr Gly Asn Tyr Val Asp Phe
E--> 388 1185      1190      1195      120
389 Tyr Ser Ala Ala Arg Pro Tyr Ser Glu Leu Asn Tyr Glu Thr Ser His
390      1205      1210      1215
391 Tyr Pro Ala Ser Pro Asp Ser Trp Val
392      1220      1225
485 <210> SEQ ID NO: 6
486 <211> LENGTH: 1247
487 <212> TYPE: PRT
488 <213> ORGANISM: mouse
490 <400> SEQUENCE: 6
491 Met Phe Ala Arg Lys Gln Ser Gly Ala Ala Pro Phe Gly Ala Met Pro
492 1 5 10 15
493 Val Pro Asp Gln Pro Pro Ser Ala Ser Glu Lys Asn Ser Ser Leu Ser
494 20 25 30
495 Pro Gly Leu Asn Thr Ser Asn Gly Asp Gly Ser Glu Thr Glu Thr Thr
496 35 40 45
497 Ser Ala Ile Leu Ala Ser Val Lys Glu Gln Glu Leu Gln Phe Glu Arg
498 50 55 60
499 Leu Thr Arg Glu Leu Glu Ala Glu Arg Gln Ile Val Ala Ser Gln Leu
500 65 70 75 80
501 Glu Arg Cys Lys Leu Gly Ser Glu Thr Gly Ser Met Ser Ser Ile Ser
502 85 90 95
503 Ser Ala Gly Glu Gln Phe His Trp Gln Thr Gln Asp Gly Gln Lys Asp
504 100 105 110
505 Ile Glu Asp Glu Leu Thr Thr Gly Leu Glu Leu Val Asp Ser Cys Ile
506 115 120 125
507 Arg Ser Leu Gln Glu Ser Gly Ile Leu Asp Pro Gln Asp Tyr Ser Thr

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```

508      130      135      140
509 Ser Glu Arg Pro Ser Leu Leu Ser Gln Ser Ala Leu Gln Leu Asn Ser
510 145      150      155      160
511 Lys Pro Glu Gly Ser Phe Gln Tyr Pro Ala Ser Tyr His Ser Asn Gln
512      165      170      175
513 Thr Leu Ala Leu Gly Asp Thr Ala Pro Ser Gln Leu Pro Ala Arg Ser
514      180      185      190
515 Thr Gln Ala Arg Ala Ala Gly Gln Ser Phe Ser Gln Gly Thr Thr Gly
516 195      200      205
517 Arg Ala Gly His Leu Ala Gly Ser Glu Pro Ala Pro Pro Pro Pro Pro
518 210      215      220
519 Pro Arg Glu Pro Phe Ala Pro Ser Leu Gly Ser Ala Phe His Leu Pro
520 225      230      235      240
521 Asp Ala Pro Pro Ala Ala Ala Ala Leu Tyr Tyr Ser Ser Ser Ser Leu
522      245      250      255
523 Pro Ala Pro Pro Arg Gly Gly Ser Pro Leu Thr Thr Thr Gln Gly Gly
524      260      265      270
525 Ser Pro Thr Lys Leu Gln Arg Gly Gly Ser Ala Pro Glu Gly Ala Ala
526      275      280      285
527 Tyr Ala Ala Pro Arg Gly Ser Ser Pro Lys Gln Ser Pro Ser Arg Leu
528      290      295      300
529 Ala Lys Ser Tyr Ser Thr Ser Ser Pro Ile Asn Ile Val Val Ser Ser
530 305      310      315      320
531 Ala Gly Leu Ser Pro Ile Arg Val Thr Ser Pro Pro Thr Val Gln Ser
532      325      330      335
533 Thr Ile Ser Ser Ser Pro Ile His Gln Leu Ser Ser Thr Ile Gly Thr
534      340      345      350
535 Tyr Ala Thr Leu Ser Pro Thr Lys Arg Leu Val His Ala Ser Glu Gln
536      355      360      365
537 Tyr Ser Lys His Ser Gln Glu Leu Tyr Ala Thr Ala Thr Leu Gln Arg
538      370      375      380
539 Pro Gly Ser Leu Ala Ala Gly Ser Arg Ala Ser Tyr Ser Ser Gln His
540 385      390      395      400
541 Gly His Leu Ala Pro Glu Leu Arg Ala Leu Gln Ser Pro Glu His His
542      405      410      415
543 Ile Asp Pro Ile Tyr Glu Asp Arg Val Tyr Gln Lys Pro Pro Met Arg
544      420      425      430
545 Ser Leu Ser Gln Ser Gln Gly Asp Pro Leu Pro Pro Ala His Thr Gly
546      435      440      445
547 Thr Phe Arg Thr Ser Thr Ala Pro Ser Ser Pro Gly Val Asp Ser Val
548      450      455      460
549 Pro Leu Gln Arg Thr Gly Ser Gln His Gly Pro Gln Asn Ala Ala Ala
550 465      470      475      480
551 Ala Thr Phe Gln Arg Ala Ser Tyr Ala Ala Gly Pro Ala Ser Asn Tyr
552      485      490      495
553 Ala Asp Pro Tyr Arg Gln Leu Gln Tyr Cys Ala Ser Val Asp Ser Pro
554      500      505      510
555 Tyr Ser Lys Ser Gly Pro Ala Leu Pro Pro Glu Gly Thr Leu Ala Arg
556      515      520      525

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```

557 Ser Pro Ser Ile Asp Ser Ile Gln Lys Asp Pro Arg Glu Phe Gly Trp
558      530      535      540
559 Arg Asp Pro Glu Leu Pro Glu Val Ile Gln Met Leu Gln His Gln Phe
560      545      550      555      560
561 Pro Ser Val Gln Ser Asn Ala Ala Ala Tyr Leu Gln His Leu Cys Phe
562      565      570      575
563 Gly Asp Asn Lys Ile Lys Ala Glu Ile Arg Arg Gln Gly Gly Ile Gln
564      580      585      590
565 Leu Leu Val Asp Leu Leu Asp His Arg Met Thr Glu Val His Arg Ser
566      595      600      605
567 Ala Cys Gly Ala Leu Arg Asn Leu Val Tyr Gly Lys Ala Asn Asp Asp
568      610      615      620
569 Asn Lys Ile Ala Leu Lys Asn Cys Gly Gly Ile Pro Ala Leu Val Arg
570      625      630      635      640
571 Leu Leu Arg Lys Thr Thr Asp Leu Glu Ile Arg Glu Leu Val Thr Gly
572      645      650      655
573 Val Leu Trp Asn Leu Ser Ser Cys Asp Ala Leu Lys Met Pro Ile Ile
574      660      665      670
575 Gln Asp Ala Leu Ala Val Leu Thr Asn Ala Val Ile Ile Pro His Ser
576      675      680      685
577 Gly Trp Glu Asn Ser Pro Leu Gln Asp Asp Arg Lys Ile Gln Leu His
578      690      695      700
579 Ser Ser Gln Val Leu Arg Asn Ala Thr Gly Cys Leu Arg Asn Val Ser
580      705      710      715      720
581 Ser Ala Gly Glu Glu Ala Arg Arg Arg Met Arg Glu Cys Asp Gly Leu
582      725      730      735
583 Thr Asp Ala Leu Leu Tyr Val Ile Gln Ser Ala Leu Gly Ser Ser Glu
584      740      745      750
585 Ile Asp Ser Lys Thr Val Glu Asn Cys Val Cys Ile Leu Arg Asn Leu
586      755      760      765
587 Ser Tyr Arg Leu Ala Ala Glu Thr Ser Gln Gly Gln His Met Gly Thr
588      770      775      780
589 Asp Glu Leu Asp Gly Leu Leu Cys Gly Glu Thr Asn Gly Lys Asp Thr
590      785      790      795      800
591 Glu Ser Ser Gly Cys Trp Gly Lys Lys Lys Lys Lys Lys Ser Gln
592      805      810      815
593 Asp Gln Trp Asp Gly Val Gly Pro Leu Pro Asp Cys Ala Glu Pro Pro
594      820      825      830
595 Lys Gly Ile Gln Met Leu Trp His Pro Ser Ile Val Lys Pro Tyr Leu
596      835      840      845
597 Thr Leu Leu Ser Glu Cys Ser Asn Pro Asp Thr Leu Glu Gly Ala Ala
598      850      855      860
599 Gly Ala Leu Gln Asn Leu Ala Ala Gly Ser Trp Lys Gly Trp Ala Glu
600      865      870      875      880
601 Asp Val Ala Gly Met Ala Tyr Ala Leu Arg Ser Leu Pro Glu Gly Ala
602      885      890      895
603 Pro Cys Leu Pro Gln Trp Ser Val Tyr Ile Arg Ala Ala Val Arg Lys
604      900      905      910
605 Glu Lys Gly Leu Pro Ile Leu Val Glu Leu Leu Arg Ile Asp Asn Asp

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```

606          915          920          925
607 Arg Val Val Cys Ala Val Ala Thr Ala Leu Arg Asn Met Ala Leu Asp
608          930          935          940
609 Val Arg Asn Lys Glu Leu Ile Gly Lys Tyr Ala Met Arg Asp Leu Val
610          945          950          955          960
611 His Arg Leu Pro Gly Gly Asn Asn Ser Asn Asn Ser Gly Ser Lys Ala
612          965          970          975
613 Met Ser Asp Asp Thr Val Thr Ala Val Cys Cys Thr Leu His Glu Val
614          980          985          990
615 Ile Thr Lys Asn Met Glu Asn Ala Lys Ala Leu Arg Asp Ala Gly Gly
616          995          1000          1005
617 Ile Glu Lys Leu Val Gly Ile Ser Lys Ser Lys Gly Asp Lys His Ser
618          1010          1015          1020
619 Pro Lys Val Val Lys Ala Ala Ser Gln Val Leu Asn Ser Met Trp Gln
E--> 620 1025          1030          1035          104
621 Tyr Arg Asp Leu Arg Ser Leu Tyr Lys Lys Asp Gly Trp Ser Gln Tyr
622          1045          1050          1055
623 His Phe Val Ala Ser Ser Ser Thr Ile Glu Arg Asp Arg Gln Arg Pro
624          1060          1065          1070
625 Tyr Ser Ser Ser Arg Thr Pro Ser Ile Ser Pro Val Arg Val Ser Pro
626          1075          1080          1085
627 Asn Asn Arg Ser Ala Ser Ala Pro Ala Ser Pro Arg Glu Met Ile Ser
628          1090          1095          1100
629 Leu Lys Glu Arg Lys Thr Asp Tyr Glu Ser Ala Gly Asn Asn Ala Thr
E--> 630 1105          1110          1115          112
631 Tyr His Gly Thr Lys Gly Glu His Thr Ser Arg Lys Asp Thr Met Thr
632          1125          1130          1135
633 Ala Gln Asn Thr Gly Val Ser Thr Leu Tyr Arg Asn Ser Tyr Gly Ala
634          1140          1145          1150
635 Pro Ala Glu Asp Ile Lys Gln Asn Gln Val Ser Thr Gln Pro Val Pro
636          1155          1160          1165
637 Gln Glu Pro Ser Arg Lys Asp Tyr Glu Thr Tyr Gln Pro Phe Pro Asn
638          1170          1175          1180
639 Ser Thr Arg Asn Tyr Asp Glu Ser Phe Phe Glu Asp Gln Val His His
E--> 640 1185          1190          1195          120
641 Arg Pro Pro Ala Ser Glu Tyr Thr Met His Leu Gly Leu Lys Ser Thr
642          1205          1210          1215
643 Gly Asn Tyr Val Asp Phe Tyr Ser Ala Ala Arg Pro Tyr Ser Glu Leu
644          1220          1225          1230
645 Asn Tyr Glu Thr Ser His Tyr Pro Ala Ser Pro Asp Ser Trp Val
646          1235          1240          1245

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VERIFICATION SUMMARY

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L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:368 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
M:332 Repeated in SeqNo=4
L:620 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:6
M:332 Repeated in SeqNo=6